

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1-32. (Canceled)

33. (Previously Presented) An apparatus for sensing acoustic pressures in a fluidic media, comprising:

a housing enclosing a liquid; and

a mandrel, wherein the mandrel contains at least one feature for routing an optical fiber, wherein the feature comprises at least one pre-defined tunnel from one end of the mandrel to another end for routing the optical fiber; and

an optical fiber sensor wherein the fiber is routed through the pre-defined tunnel of the mandrel and is then wrapped around the outside of the mandrel, the sensor and mandrel being within the liquid for sensing the acoustic pressures in the fluidic media.

34. (Original) The apparatus of claim 33, wherein the feature comprises at least one groove for routing the optical fiber.

35. (Original) The apparatus of claim 34, wherein the at least one groove comprises a helical groove on an outer surface of the mandrel.

36. (Original) The apparatus of claim 34, wherein the at least one groove comprises a spiral groove on an end of the mandrel.

37. (Canceled)

38. (Original) The apparatus of claim 33, wherein the feature comprises at least one tunnel from one end of the mandrel to another end for routing at least one portion of the optical fiber having a grating therein.

39. (Original) The apparatus of claim 33, wherein the feature comprises a bore through the center of the mandrel.

40-46. (Canceled)